

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001927

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup> B64C 11/46

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup> B64C 11/46, F15D 1/00, F04D 29/66

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms)

Databases: Delphion, EspaceNet, USPTO, Canadian Patent Database.

Terms: coaxial, propulsion, system, engine, propeller, flow, control, element, diffuser, vane, swirl, shroud

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).
X	US 3,879,941 (SARGISSON, D.F.) 29 April 1975 (29.04.1975) Description, column 2, line 51 to column 7, line 33; Figures 1A, 2A.	1 to 5, 7-8, 11-12, 27-29, 31-32, 35-36, 38-40, 42, 46 to 48.
Y		6 to 10, 13 to 19, 21 to 23, 25-26, 30, 33-34, 37, 41, 43 to 45, 49.
X	EP 0,761,947 A1 (MCGUIRE et al.) 12 March 1997 (12.03.1997) Description, column 7, lines 38 to 52, column 10, line 23 to line 54, column 12,	1, 2, 3, 11, 12, 27, 35.
Y	lines 11 to 17, column 15, line 50 to column 16, line 46, column 17, lines 3 to 13, column 17, line 37 to column 18, line 4, column 20, line 6 to line 22; Figure 3.	5 to 10, 29 to 34, 36, 37.
Y	WO 00/64735 (CYCON et al.) 02 November 2000 (02.11.2000) Description, page 16, line 8 to page 17, line 21; Figures 2, 3, 5.	9, 23, 33, 44.

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	DE 2,119,288 (FISHER, H.-O.) 16 November 1972 (16.11.1972) Description, page 2, line 1 to page 8, last line; Figures 1, 3.	13
Y	US 6,543,726 B2 (ILLINGWORTH, L.) 08 April 2003 (08.04.2003) Description, column 5, line 53 to column 6, line 37; Figures 6 to 10.	6, 30, 41
Y	CA 1,310,194 (ADAMSON et al.) 17 November 1992 (17.11.1992) Description, page 5, line 26 to page 7, line 10, page 7, line 32, page 11, line 19; Figures 1, 3.	9, 23, 33, 44
Y	EP 0,272,822 A1 (SHORT BROTHERS PLC.) 29 June 1988 (29.06.1988) Description, column 2, line 36 to column 4, line 28, column 5, line 6 to column 7, line 29; Figures 2, 3, 6, 7.	6, 13 to 19, 21 to 23, 25-26, 30, 41, 49
Y	US 4,676,459 (SEEFLUTH, U.C.) 30 June 1987 (30.06.1987) Description, column 2, line 15 to column 3, line 27; Figures 1, 4, 5	6, 13 to 19, 21 to 23, 25-26, 30, 41, 49
A, P	US 2003/0,228,214 A1 (MCBRIDE, M.W.) 11 December, 2003 Description, page 2, paragraphs 0017, 0018 and 0024 , page 3, paragraphs 0026, 0030; Figures 1, 5, 6A, 6B.	1, 13, 27, 38
A	CA 1,057,720 (BENSON, W.) 03 July 1979 (03.07.1979) Description, page 8, line 7 to page 14, line 10; Figures 1, 2, 4.	1, 13, 27, 38

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Information on patent family members

International application No.  
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3,879,941	29 April 1975 (29.04.1975)	None	None
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		IL 0,084,671 A0	31 May 1988 (31.05.1988)
		GB 8,728,145 A	06 January 1988 (06.01.1988)
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		WO 03/038286 A2	08 May 2003 (08.05.2003)
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CA 1,057,720	03 July 1979 (03.07.1979)	None	None